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SURFACE LIGHT SOURCE UNIT AND LIQUID
CRYSTAL DISPLAY DEVICE USING THE SAME

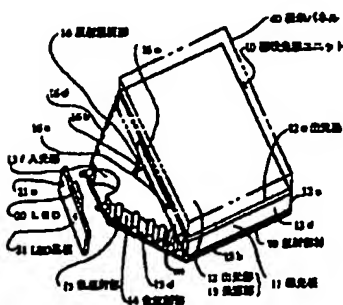
(57) Abstract:

PROBLEM TO BE SOLVED: To obtain a surface light source of an edge light system which is uniform in luminance by effectively making effective use of light of an LED light source.

SOLUTION: A light guide plate 11, which is planar member made of a translucent member and forms irregular reflection parts 15 on a lower surface, is constituted of a light emitting part 12 in which an upper surface 12a is provided as a light emitting surface, and a planar shape is a substantially right-angled quadrilateral and a light source part 13, extending from a light emitting surface 12a to an LED 20 side on one side surface of the LED 20 side. Within the light source part 13, a reflection and refracting part constituted of a through hole or a non-through-hole having a boundary surface 16b in which thickness direction cross section of the light guide plate 11 is vertical and plane direction cross section is inclined to the LED 20 is provided so as to be opposed to the LED 20. On both side surfaces 13d on the LED 20 side of the light source part 13, irregular reflection parts 15 constituted of a plurality of grooves having substantially circular arc shapes in cross section substantially parallel in the thickness direction of the light guide plate 11 are provided. On peripheral surfaces (13b, 13c, 13d, 12b, 12c, 12d), excepting at least light incoming surface 13f and a light emitting surface 13a of the light guide plate 11, reflecting members are arranged adjacently.

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